

CLAIMS

We claim:

1. A HVAC system for reducing contaminant entry, said system having an evaporator compartment comprised of:

5 a compartment housing;

a supply air duct and a return air duct coupled to said housing;

an evaporator coil disposed within said housing;

a fan assembly disposed within said housing, said fan assembly having a fan motor and an impeller attached to said fan motor wherein said impeller is a radial fan impeller.

10 2. The HVAC system described in claim 1 wherein said radial fan impeller is disposed perpendicular to said evaporator coil.

3. The HVAC system described in claim 1 wherein said radial fan impeller is disposed adjacent to said return air duct.

15 4. The HVAC system described in claim 1 wherein said radial fan impeller is comprised of at least one of the materials from the following group: plastic, ceramic, metal alloy or fiber compositions.